

HUMAN OSTEOLOGY

Professor: Jack M. Broughton
(jack.broughton@anthro.utah.edu)
Office: 218 Stewart Bldg.
Hours: drop by anytime! (or by appointment)

Knowledge of human osteology provides an essential background for a number of anthropological research domains, ranging from analyses of early hominid fossils to the study of the more recently deceased in forensic settings. This intensive laboratory-based course provides an introduction to the identification of human osteological material from archaeological and forensic settings. In particular, students will gain general competence in identifying complete and fragmentary specimens to element and side, as well as recognizing important osteological landmarks. In addition, students will gain experience in applying anthropological research methods to answer questions involving the age, sex, and ancestry of individuals from their osteological remains as well identifying pathologies, post-mortem damage, and non-human vertebrate materials.

Text: Required: White, Tim D. and P. Folkens. 2005. *The Human Bone Manual*. Academic Press: San Diego, CA.

Grading: There will be one exam on the readings (vocabulary) from ch. 1-6 (Sept. 11), three practical laboratory exams (Sept 18, Oct 23, and Nov 13), one laboratory exercise, and one cumulative practical final exam (Monday, Dec 11, 2-4 pm). The exams are each worth 25 points, the lab exercise (due May 2) is worth 10 points, and the final is 50 points (160 points possible). Final grades will be determined on the basis of the cumulative percentage of points obtained on the lab exercise, the exams, and the final with the scale of: 90-100% = A- to A; 80-89% = B- to B+; 70-79% = C- to C+, and so on. *There will be no makeup exams.* Students enrolled in 6271 will conduct a research project involving some problem in human osteology; topics should be discussed with me no later than the third week (Due: May 5; paper will comprise 25% of course grade).

<u>Week (Date)</u>	<u>Topic</u>	<u>Relevant readings</u>
1. (8/21)	Introduction. Anatomical Orientation and Terminology. Bone Biology. Flat Bones of the Skull.	White ch. 1-7
2. (8/28)	Sphenoid and Ethmoid. Bones of the Face.	White ch. 7
9/4	No Class-Labor Day	
3. (9/11)	Readings Quiz. Hyoid. Vertebrae. Sternum and Ribs.	White ch. 9-10
4. (9/18)	Lab Exam #1. Shoulder Girdle. Bones of the Forelimb.	White ch. 11-12
5. (9/25)	The Hand: Carpals, Metacarpals, Phalanges.	White ch. 13
6. (10/2)	Pelvic Girdle. Bones of the Hindlimb.	White ch. 14-15
(10/9)	No Class—Fall Break.	
7. (10/16)	The Foot: Tarsals, Metatarsals, Phalanges.	White ch. 16
8. (10/23)	Lab Exam #2. Sex Determination from the Skeleton.	White ch. 18-19
9. (10/30)	Age Determination from Teeth and Ectocranial Suture Closure.	White ch. 8, 19
10. (11/6)	Age Determination from Epiphyseal Union and Pubic Symphysis.	White ch. 19
11. (11/13)	Lab exam #3.	
12. (11/20)	Craniometry and Ancestry Determination.	White ch. 19
13. (11/27)	Pathology and Trauma.	White ch. 17
14. (12/4)	Non-human Vertebrates. Post-Mortem Damage and Taphonomy.	White ch. 5
16. (5/2)	Final Exam (Monday, 12/11: 2-4 pm). Lab Exercise Due.	

Department and University Policies

ADA Statement: The Americans with Disabilities Act. The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, (801) 581-5020. CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in an alternative format with prior notification to the Center for Disability Services.

Addressing Sexual Misconduct: Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).

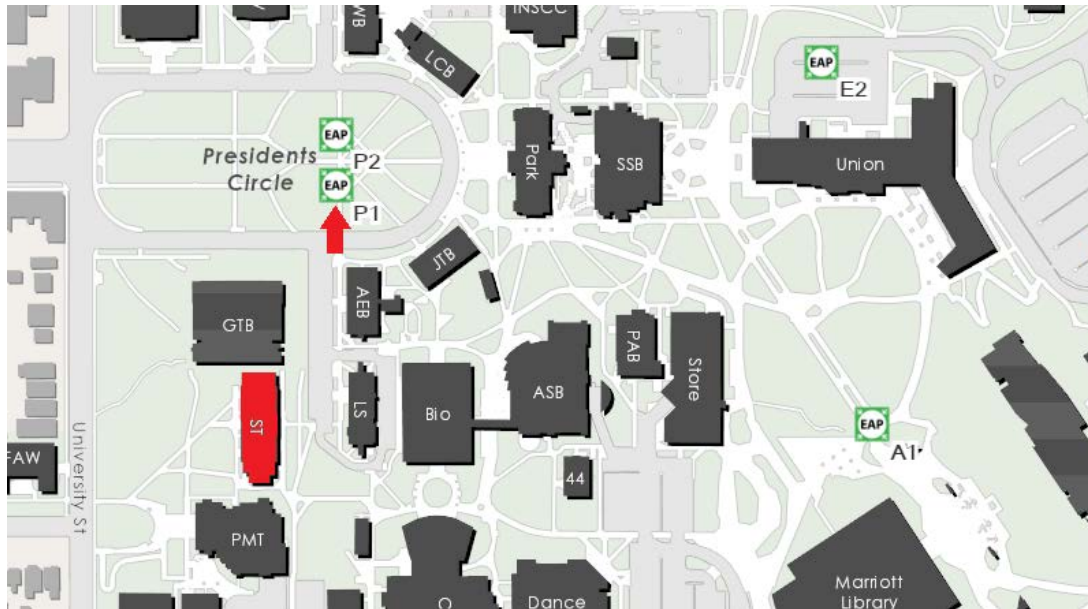
Wellness Statement: Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness (www.wellness.utah.edu; 801-581-7776).

Student Code: (Policy 6-400) All students are expected to maintain professional behavior in the classroom setting, according to the Student Code (regulations.utah.edu/academics/6-400.php). Students have specific rights in the classroom as detailed in S. II of the Code. The Code also specifies standards of behavior (S. III) and academic conduct (S. V). ``Students must adhere to generally accepted standards of academic honesty, including but not limited to refraining from cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating" (S. VB). According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors. Students have the right to appeal such action to the Student Behavior Committee.

Incomplete Policy: An "I" will only be given for work not completed because of circumstances beyond the student's control, providing the student is passing the course and needs to complete 20% or less of the work. Valid reasons for an "I" grade include: (a) An illness (documented by a medical statement) that precludes the ability of the student to perform; (b) an accident or situation that prevents the student from physically being present (documentation may be required); (c) Extreme emotional or other mental circumstances that are severe enough to interfere with a student's normal academic performance. If you do receive an "I", do not register for the course again. You must complete the required work in the time agreed by you and the instructor. If the work is not completed within one year, the grade will change to an "E". ***Faculty will not accept additional work to change the grade after that one-year period.*** If a student has a problem with the course, please deal with it immediately. It is the student's responsibility to contact instructors and submit necessary forms.

Note: The syllabus is not a binding legal contract. It may be modified by the instructor when the student is given reasonable notice of the modification.

CSBS EMERGENCY ACTION PLAN



BUILDING EVACUATION

EAP (Emergency Assembly Point) – When you receive a notification to evacuate the building either by campus text alert system or by building fire alarm, please follow your instructor in an orderly fashion to the EAP marked on the map below. Once everyone is at the EAP, you will receive further instructions from Emergency Management personnel. You can also look up the EAP for any building you may be in on campus at <http://emergencymanagement.utah.edu/eap>.



CAMPUS RESOURCES

U Heads Up App: There's an app for that. Download the app on your smartphone at alert.utah.edu/headsup to access the following resources:

- **Emergency Response Guide:** Provides instructions on how to handle any type of emergency, such as earthquake, utility failure, fire, active shooter, etc. Flip charts with this information are also available around campus.
- **See Something, Say Something:** Report unsafe or hazardous conditions on campus. If you see a life threatening or emergency situation, please call 911!

Safety Escorts: For students who are on campus at night or past business hours and would like an escort to your car, please call **801-585-2677**. You can call 24/7 and a security officer will be sent to walk with you or give you a ride to your desired on-campus location.